

# **PATENT COOPERATION TREATY**

# **PCT**

## INTERNATIONAL PRELIMINARY REPORTON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference PA-03067/PCT	FOR FURTHER ACT	ĹION	See Form PCT/IPEA/416	;
International application No.	International filing date	(day/month/year)	Priority date (day/month/year)	
PCT/JP 03 / 12938	09.10	.2003	09.10	.2002
International Patent Classification (IPC) of Int.Cl 7 C22C21/12	or national classification a	and IPC	<u>,                                      </u>	
Applicant SHOWA DENKO	) K.K.			
1. This report is the international p Authority under Article 35 and tr	ransmitted to the applican	nt according to Article	36.	ninary Examining
<ol> <li>This REPORT consists of a total</li> <li>This report is also accompanied b</li> </ol>		-	neet.	
		.g.		
a. a total of		t and the second state to accomp		
and/or sheets co	sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).			
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.				
b. a total of (indicate type and number of electronic carrier(s)) containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).				
4. This report contains indications relating to the following items:				
Box No. I Basis of the	e report			
Box No. II Priority	-			
Box No. III Non-establi	shment of opinion with r	egard to novelty, inve	ntive step and industrial a	pplicability
Box No. IV Lack of uni	Box No. IV Lack of unity of invention			
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
Box No. VI Certain documents cited				
	Box No. VII Certain defects in the international application			
Box No. VIII Certain observations on the international application				
Date of submission of the demand		Date of completion	of this report	
12.03.2004		26.11.2004		
Name and mailing address of the IPEA/JP		Authorized officer		4K 9269
Japan Patent Office		TAKESHI INOUE		
3-4-3 Kasumigaseki Chiyoda-ku Tokyo 100-8915 Japan		Telephone No. +81-3-3581-1101 Ext. 3435		

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP03

/12938

Box No.	Basis of the report			
1 With	regard to the language, this report is based on the international application in the language in which it was filed, unless			
otherwise indicated under this item.				
	This report is based on translations from the original language into the following language			
	which is the language of a translation furnished for the purposes of:			
	international search (under Rules 12.3 and 23.1(b))			
	publication of the international application (under Rule 12.4)			
	international preliminary examination (under Rules 55.2 and/or 55.3)			
	regard to the elements of the international application, this report is based on (replacement sheets which have been			
	thed to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed"			
	re not annexed to this report):			
	the international application as originally filed/furnished			
	the description:			
	pages as originally filed/furnished			
	pages* received by this Authority on			
	pages* received by this Authority on			
_	the claims:			
	•			
	pages as originally filed/furnished pages* as amended (together with any statement) under Article 19			
	pages* as amended (together with any statement) under Article 19			
	pages* received by this Authority on			
	the drawings:			
	pages as originally filed/furnished pages* received by this Authority on			
	pages* received by this Authority on			
	received by this Mathematical on			
	a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.			
3.	The amendments have resulted in the cancellation of:			
	the description, pages			
	the claims, Nos.			
	the drawings, sheets/figs			
	<u> </u>			
	the sequence listing (specify):			
	any table(s) related to sequence listing (specify):			
4.	This report has been established as if (some of) the amendments annexed to this report and listed below had not been			
	made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).			
	the description, pages			
1	the claims, Nos.			
	the drawings, sheets/figs			
	the sequence listing (specify):			
any table(s) related to sequence listing (specify):				
* If item 4 applies, some or all of those sheets may be marked "superseded."				

#### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/JP03 / 12938

	under Article 35(2) with	n regard to novelty, inventive step or indu statement	strial applicability;
1. Statement		,	
Novelty (N)	Claims	1-12	YES
	Claims		NO
Inventive step (IS)	Claims		YES
	Claims	1-12	NO
Industrial applicability (IA)	Claims	1-12	YES
	Claims		NO

2. Citations and explanations (Rule 70.7)

D1: EP 982410 A1 (Alusuisse Technology & Management AG) 2000.03.01

D2: US 6113850 A (Bartges et al.) 2000.09.05 D3: US 5803994 A (Coats,II et al.) 1998.09.08

D4: JP 2001-107169 A (SHOWA ARUMINIUMU K.K.) 2001.04.17

D5: JP 63-312945 A (K.K. KOBE SEIKOUSHO) 1988.12.21

The subject matter of claims 1-12 does not meet the requirement of an inventive step. D1-5 don't disclose aluminum alloys containing B, however it is well-known to the person skilled in the art to add B as grain refiner to aluminum alloy. (Refer to JP 60-43454 A, if it is necessary.)

Therefore, it would be obvious to the person skilled in the art to add B as grain refiner to aluminum alloys in D1-5.

### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP03 / 12938

l.	Certain published documents (Rule 70.1)		ale 70.10)	•	CE SECTION IN
		cation No. ent No.	Publication date (day/month/year)	Filing date (day/month/year)	Priority date (valid claim) (day/month/year)
	JP 2004- EX	3007 A	08.01.2004	23.04.2003	25.04-2002
	JP 2004- EX	2947 A	08.01.2004	30.07.2002	15.04.2002

2.	Non-written disclosures (Rule 70.9)		
	Kind of non-written disclosure	Date of non-written disclosure (day/month/year)	Date of written disclosure referring to non-written disclosure (day/month/year)
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